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10/750,534	12/31/2003	Peter A. Davison	884.A71US1	5554
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c/o INTELLEVATE, LLC			EWALD, MARIA VERONICA	
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			1791	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/750,534 DAVISON ET AL. Office Action Summary Examiner Art Unit MARIA VERONICA D. EWALD 1791 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 30 June 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6.8.11.12 and 27-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6,8,11,12 and 27-30 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 10 October 2006 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _______.

5) Notice of Informal Patent Application

6) Other:

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

13. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on June 30, 2008 has been entered.

Claim Rejections - 35 USC § 112

14. The following is a quotation of the second paragraph of 35 U.S.C. 112:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 – 8, 11 – 12 and 27 – 30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As written, claim 1 states that the embossing tool substrate has a major surface, having an embossing profile with a first major surface and a second major surface. The claim is unclear as to whether the major surface has a first major surface and a second major surface or whether the embossing profile has a first major surface and a second major surface. The Examiner is interpreting claim 1 such that the substrate has a first major surface and second major surface, such surfaces each having an embossing profile. Furthermore, it is noted that the

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Examiner's interpretation is consistent with what has been amended in the Specification. Newly-amended paragraphs 0069 and 0073 state that the substrate has a first and second major surface with embossing profile(s).

Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. (U.S. 6,805,966) in view of Okazaki, et al. (U.S. 4,723,903), DePuydt, et al. (U.S. 6,030,556) or Homola, et al. (U.S. 2004/0202865 A1).

Formato, et al. teach an apparatus comprising: an embossing tool substrate made of a first metal (column 15, lines 7 – 10), a major surface of the substrate having an embossing profile with a first major surface and a second major surface (figure 6(h)).

Formato, et al., however, is silent with respect to the presence of a first and second coating on the first major surface of the substrate, the first coating providing an adherable surface and the second coating over the first coating, the second coating providing a non-adhesive outer surface.

In an embossing apparatus, Okazaki, et al. teach an embossing tool substrate made of a first metal (item 1 – figure 3a and 3b; column 2, lines 65 –

66), a first major surface of the substrate having an embossing profile (figures 3a and 3b); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (column 3, lines 1 – 3); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (column 3, lines 5-7). The first coating allows for strengthening the adhesion between the substrate and its coating(s) and for damping the stress to the substrate (column 2, lines 65 - 68; column 3, lines 1 - 5). The second or outer coating provides a release layer, improving the separation property of the stamper from any surfaces (column 3, lines 4 - 8).

Similarly, DePuydt, et al. teach an apparatus comprising an embossing tool substrate made of a first metal, a first major surface of the substrate having an embossing profile (item 42 - figure 4; column 1, lines 15 - 20; column 7, lines 1 – 5); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (column 7, lines 10 - 15); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (column 7, lines 59 – 65); wherein the first coating is further comprised of three layers (a dielectric layer and a patterning layer comprised of two distinct layers). wherein there is a first layer of a second metal deposited over the embossing tool substrate (column 7, lines 28 - 31, 45 - 50); a subsequent layer over the base layer of second metal (column 5, lines 25 – 35, 58 – 60); and the third layer (column 5, lines 58 - 60). Furthermore, the second coating, also known as the cap coating or cap layer is provided to reduce or prevent disruptions to the planarity of the patterning material layers of the first coating (column 7, lines 60 - Art Unit: 1791

65). DePuydt, et al. further teach that the layers of the individual layers depends on the desired pit depth in the discs to be stamped or formed (column 6, lines 60 – 65).

In addition, Homola, et al. teach an apparatus comprising: an embossing tool substrate made of a first metal (item 110 – figure 1a; paragraph 0020), a first major surface of the substrate having an embossing profile (figure 1a); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (item 130 – paragraph 0022); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (item 120 – figure 1a; paragraph 0019). Homola, et al. further teach that the coatings enable the stamper to exhibit high temperature resistance, allowing repeated use without extensive wear and also facilitates separation of the stamper from the embossable surface (paragraph 0019).

Thus, because Formato, et al., Okazaki, et al., DePuydt, et al. and Homola, et al. teach embossing apparatus, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the stamper of Formato, et al. with the first and second coatings, as taught by Okazaki, et al., DePuydt, et al., or Homola, et al. for the purpose(s) of dampening stress to the substrate, promoting adhesion between the substrate and its coating, and improving the separation property of the stamper from surfaces it may contact.

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Claims 2 - 3 and 5 - 6 rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of either Okazaki, et al. or DePuydt, et al., in view of Ohman, et al. (U.S. 6,454,970) and further in view of Imatomi (U.S. 2006/0051453 A1), Formato, et al., Okazaki, et al. and DePuvdt, et al. teach the characteristics previously described but do not teach the specific metals in a multi-layered stamper, comprised of a layer of a second metal, a layer of a metal oxide and a layer of a metal nitride, respectively. It is important to note, however, that Okazaki, et al. teach that the stamper can be comprised of multiple layers of metal film over the substrate base, the lavers providing for strengthening adhesion or damping the stress encountered by the stamper and thus, prolonging its useful life. In addition, DePuvdt, et al., do disclose the substrate with its multi-layered coating, such that the coating layers range in thickness from 10 – 200 nm. It is, therefore, known to one of ordinary skill in the art to apply metal or metal allovs in the formation of a substrate tool in layers and to ensure that such lavers are very thin.

Ohman, et al. teach the use of a three-layered substrate, comprised of a base metal layer, a thin layer of a second metal with good electrical characteristics, and a hard, wear-resistant layer, providing good release characteristics when contacted against the plastic element to be embossed (column 19, lines 15 – 25). The outermost wear-resistant layer consists of up to 5 micrometers (µm) of titanium nitride. In addition, Ohman, et al. teach that the respective layers should be fairly thin (< 20 µm or between 2 – 10 µm) to produce optimum results (column 18, lines 10 – 13). Furthermore, though the Applicant

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has claimed the specific thicknesses of $0.5 \, \mu m$ and $2-9 \, \mu m$, the Applicant has not introduced specific reasoning for utilizing such thicknesses. On the other hand, Ohman, et al. has stated that practically, very thin layers produce optimum results. Therefore, one of ordinary skill in the art would conclude that optimum results and higher quality substrates are produced with thinner layers.

Furthermore, in a method to manufacture a metal mold device, Imatomi teaches that components of the mold may be produced with layers (paragraph 0090), wherein there is a base layer, an inner layer and an outermost layer. The inner and outermost layers may be made of zirconium oxide and/or zirconium nitride among other metal compounds that may be used. The use of zirconium nitride and oxide provides good wear-resistant characteristics and toughness (paragraph 0091).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to modify stamper of Formato, et al. with the coatings of either Okazaki, et al. or DePuydt, et al. further configured with the zirconium oxide and zirconium nitride layers of Imatomi, et al., and ensuring that the layers are very thin, as taught Ohman, et al. for the purposes of providing layers, with toughness and good wear-resistance as taught by Imatomi and producing optimum results as taught by Ohman, et al.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of Okazaki, et al. or DePuydt, et al. and further in view of Cheung, et al. (U.S. 6,210,514). Formato, et al., Okazaki, et al., and DePuydt, et

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al. teach the characteristics previously described but do not teach that the second coating is comprised of polyparaxylylene.

In a method to fabricate thin film structures onto a substrate, Cheung, et al. teach the use of dielectric deposition of parylene C (paraxylylene), of 5 μ m thick, onto the substrate (column 11, lines 35 – 37). The dielectric deposition of such a coating enhances moisture and chemical barrier properties of the finished assembly (column 11, lines 43 – 45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the stamper of Formato, et al. with the coatings of either Okazaki, et al. or DePuydt, et al., further configured such that paraxylylene is used as the cap layer or second coating for the purpose of maintaining the integrity and chemical properties of the patterning layer in the first coating.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of either Okazaki, et al. or DePuydt, et al., in view of Ohman, et al., in view of Imatomi and further in view of Cheung, et al. Formato, et al., Okazaki, et al., DePuydt, et al., Ohman, et al. and Imatomi teach the characteristics previously described but do not teach that the second coating is comprised of polyparaxylylene.

In a method to fabricate thin film structures onto a substrate, Cheung, et al. teach the use of dielectric deposition of parylene C (paraxylylene), of 5 μ m thick, onto the substrate (column 11, lines 35 – 37). The dielectric deposition of

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such a coating enhances moisture and chemical barrier properties of the finished assembly (column 11, lines 43 – 45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the stamper of Formato, et al. with the coatings of either Okazaki, et al. or DePuydt, et al., further configured further configured with the multi-layered composition of Ohman, et al. and Imatomi, such that paraxylylene is used as the cap layer or second coating for the purpose of maintaining the integrity and chemical properties of the patterning layer in the first coating.

Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of either Okazaki, et al., DePuydt, et al. or Homola, et al. in view of Wago, et al. (U.S. 6,869,557). Formato, et al., Okazaki, et al., DePuydt, et al. and Homola, et al. do not explicitly teach that the apparatus for embossing is further comprised of a heater and a pressure apparatus; however, it is obvious that both of these elements are present in such typical embossing or stamping apparatus.

For example, in a method to emboss or stamp a disk during thermal imprint lithography, Wago, et al. teach the use of both a heating apparatus to heat the embossable substrate and stamper (figure 2) and a pressure apparatus to apply the necessary pressure (10 MPa shown) to adequately transfer the negative pattern from the stamper surface to the embossable substrate, producing the opposite, positive pattern on the substrate surface (figure 2).

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Thus, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the embossing tool of Formato, et al. with the coatings of Okazaki, et al., DePuydt, et al. or Homola, et al., further configured with a heating apparatus and pressure apparatus to adequately perform thermal imprint lithography, wherein the heat is used to heat the stamper and disk or embossable substrate (allowing the deformation of the substrate surface) and wherein the pressure is used to adequately transfer the negative pattern on the stamper surface to the substrate surface, resulting in a positive or opposite pattern.

Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of Okazaki, et al. in view of Imatomi. Formato, et al. and Okazaki, et al. teach the characteristics previously described, but do not specifically teach that the substrate is coated with a layer of zirconium and a layer of zirconium nitride over the layer of zirconium. It is important to note, however, that Okazaki, et al. teach that the stamper can be comprised of multiple layers of metal film over the substrate base, the layers providing for strengthening adhesion or damping the stress encountered by the stamper and thus, prolonging its useful life.

In a method to manufacture a metal mold device, Imatomi teaches that components of the mold may be produced with layers (paragraph 0090), wherein there is a base layer, an inner layer and an outermost layer. The inner and outermost layers may be made of zirconium oxide and/or zirconium nitride

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among other metal compounds that may be used. The use of zirconium nitride and oxide provides good wear-resistant characteristics and toughness (paragraph 0091).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to modify the stamper of Formato, et al. with the coatings of Okazaki, et al., further configured with the zirconium oxide and zirconium nitride layers of Imatomi, for the purposes of providing layers with toughness and good wear-resistance as taught by Imatomi.

Claims 27 – 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of Okazaki, et al., DePuydt, et al. or Homola, et al., in view of Ohman, et al., in view of Imatomi and further in view of Cheung, et al.

Formato, et al. teach an apparatus comprising: an embossing tool substrate made of a first metal (column 15, lines 7 – 10), a major surface of the substrate having an embossing profile with a first major surface and a second major surface (figure 6(h)).

Formato, et al., however, is silent with respect to the presence of a first and second coating on the first major surface of the substrate, the first coating providing an adherable surface and the second coating over the first coating, the second coating providing a non-adhesive outer surface, wherein the first coating is comprised of a layer of a second metal deposited over the embossing tool substrate; a layer of metal oxide deposited over the layer of the second metal;

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and a layer of metal nitride deposited over the layer of metal oxide; and wherein the second coating comprises poly-para-xylylene.

In an embossing apparatus, Okazaki, et al. teach an embossing tool substrate made of a first metal (item 1 – figure 3a and 3b; column 2, lines 65 – 66), a first major surface of the substrate having an embossing profile (figures 3a and 3b); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (column 3, lines 1 – 3); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (column 3, lines 5 – 7). The first coating allows for strengthening the adhesion between the substrate and its coating(s) and for damping the stress to the substrate (column 2, lines 65 – 68; column 3, lines 1 – 5). The second or outer coating provides a release layer, improving the separation property of the stamper from any surfaces (column 3, lines 4 – 8).

Similarly, DePuydt, et al. teach an apparatus comprising an embossing tool substrate made of a first metal, a first major surface of the substrate having an embossing profile (item 42 – figure 4; column 1, lines 15 – 20; column 7, lines 1 – 5); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (column 7, lines 10 – 15); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (column 7, lines 59 – 65); wherein the first coating is further comprised of three layers (a dielectric layer and a patterning layer comprised of two distinct layers), wherein there is a first layer of a second metal deposited over the embossing tool substrate (column 7, lines 28 – 31, 45 – 50); a subsequent layer over the base

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layer of second metal (column 5, lines 25-35, 58-60); and the third layer (column 5, lines 58-60). Furthermore, the second coating, also known as the cap coating or cap layer is provided to reduce or prevent disruptions to the planarity of the patterning material layers of the first coating (column 7, lines 60-65). DePuydt, et al. further teach that the layers of the individual layers depends on the desired pit depth in the discs to be stamped or formed (column 6, lines 60-65).

In addition, Homola, et al. teach an apparatus comprising: an embossing tool substrate made of a first metal (item 110 – figure 1a; paragraph 0020), a first major surface of the substrate having an embossing profile (figure 1a); a first coating over the first major surface of the substrate, the first coating providing an adherable surface (item 130 – paragraph 0022); and a second coating over the first coating, the second coating providing a non-adhesive outer surface (item 120 – figure 1a; paragraph 0019). Homola, et al. further teach that the coatings enable the stamper to exhibit high temperature resistance, allowing repeated use without extensive wear and also facilitates separation of the stamper from the embossable surface (paragraph 0019).

Furthermore, with respect to a multi-layered coating, Ohman, et al. teach the use of a three-layered substrate, comprised of a base metal layer, a thin layer of a second metal with good electrical characteristics, and a hard, wear-resistant layer, providing good release characteristics when contacted against the plastic element to be embossed (column 19, lines 15 – 25). The outermost wear-resistant layer consists of up to 5 micrometers (µm) of titanium nitride. In

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addition, Ohman, et al. teach that the respective layers should be fairly thin (< 20 μ m or between 2 – 10 μ m) to produce optimum results (column 18, lines 10 – 13). Furthermore, though the Applicant has claimed the specific thicknesses of 0.5 μ m and 2 – 9 μ m, the Applicant has not introduced specific reasoning for utilizing such thicknesses. On the other hand, Ohman, et al. has stated that practically, very thin layers produce optimum results. Therefore, one of ordinary skill in the art would conclude that optimum results and higher quality substrates are produced with thinner layers.

Furthermore, in a method to manufacture a metal mold device, Imatomi teaches that components of the mold may be produced with layers (paragraph 0090), wherein there is a base layer, an inner layer and an outermost layer. The inner and outermost layers may be made of zirconium oxide and/or zirconium nitride among other metal compounds that may be used. The use of zirconium nitride and oxide provides good wear-resistant characteristics and toughness (paragraph 0091).

In addition, in a method to fabricate thin film structures onto a substrate, Cheung, et al. teach the use of dielectric deposition of parylene C (paraxylylene), of 5 μ m thick, onto the substrate (column 11, lines 35 – 37). The dielectric deposition of such a coating enhances moisture and chemical barrier properties of the finished assembly (column 11, lines 43 – 45).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the stamper of Formato, et al. with the coatings of either Okazaki, et al., DePuydt, et al. or Homola, et al. for the

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purpose(s) of dampening stress to the substrate, promoting adhesion between the substrate and its coating, and improving the separation property of the stamper from surfaces it may contact, further configured with the zirconium oxide and zirconium nitride layers of Imatomi, et al., and ensuring that the layers are very thin, as taught Ohman, et al. for the purposes of providing layers, with toughness and good wear-resistance as taught by Imatomi and producing optimum results as taught by Ohman, et al., further configured such that paraxylylene is used as the cap layer or second coating for the purpose of maintaining the integrity and chemical properties of the patterning layer in the first coating.

Claim 30 is rejected under 35 U.S.C. 103(a) as being unpatentable over Formato, et al. in view of Okazaki, et al., DePuydt, et al. or Homola, et al., in view of Ohman, et al., in view of Cheung, et al., and further in view of Wago, et al. Formato, et al., Okazaki, et al., DePuydt, et al., Homola, et al., Ohman, et al., Imatomi, and Cheung, et al. teach the characteristics previously described but do not explicitly teach that the apparatus for embossing is further comprised of a heater and a pressure apparatus; however, it is obvious that both of these elements are present in such typical embossing or stamping apparatus.

For example, in a method to emboss or stamp a disk during thermal imprint lithography, Wago, et al. teach the use of both a heating apparatus to heat the embossable substrate and stamper (figure 2) and a pressure apparatus to apply the necessary pressure (10 MPa shown) to adequately transfer the

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negative pattern from the stamper surface to the embossable substrate, producing the opposite, positive pattern on the substrate surface (figure 2).

Thus, it would have been obvious to one of ordinary skill in the art at the time of the Applicant's invention to configure the embossing tool of Formato, et al. with the coatings of Okazaki, et al., DePuydt, et al. or Homola, et al., further configured with the multi-layered coatings of Ohman, et al. and Imatomi, configured with the coating such that it is poly-para-xylylene as taught by Cheung, et al. further configured with a heating apparatus and pressure apparatus to adequately perform thermal imprint lithography, wherein the heat is used to heat the stamper and disk or embossable substrate (allowing the deformation of the substrate surface) and wherein the pressure is used to adequately transfer the negative pattern on the stamper surface to the substrate surface, resulting in a positive or opposite pattern.

Response to Arguments

16. Applicant's arguments, see page 7, filed June 30, 2008, with respect to the rejection(s) of claim(s) 1 under 102(b) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Formato, et al. Applicant argues and has amended claim 1 to state that the embossing tool substrate has first and second major surfaces having an embossing profile. The Examiner agrees that the previously-cited references of Okazaki, et al., DePuydt, et al., and Homola, et al. do not have such an embossing tool, but a tool with only

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a first major surface with an embossing profile. The new reference of Formato, et al., however, teaches an embossing tool substrate with first and second major surfaces or a dual-sided stamping tool.

Applicant further argues that claim 1 now requires a first coating over the first and second major surfaces of the substrate; however, such an argument is not consistent with what is actually claimed. Claim 1 and new claim 27 both require an embossing tool substrate with first and second major surfaces (underlined portion); however, as written, the first coating is still only over the first major surface of the substrate. Thus, in light of newly-amended claim 1, the Examiner cites the reference of Formato, et al. with the secondary references of DePuydt, et al., Okazaki, et al. and Homola, et al.

Furthermore, the Examiner has considered Applicant's arguments over the references of Okazaki, et al. and DePuydt, et al. but do not find such arguments persuasive and as such, has included them as secondary references to reject newly-amended claim 1 and new claim 27. Okazaki, et al. and DePuydt, et al. both teach multi-layered coatings over a substrate surface, wherein the intermediate layers are used to dampen stress to the substrate, while the outer layer facilitates separation from the surface to be embossed. The Examiner, therefore, contends that both references are still pertinent to the claims.

With respect to Applicant's arguments that Ohman, et al. do not anticipate the features of claim 1, the Examiner is unclear as to what features Applicant is arguing because the reference of Ohman, et al. was not previously used to reject claim 1, but dependent claims 2-3 and 5-6.

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Furthermore, the dependent claims remain rejected over the secondary references of Ohman, et al., Imatomi, Wago, et al. and Cheung, et al.

Conclusion

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARIA VERONICA D. EWALD whose telephone number is (571)272-8519. The examiner can normally be reached on M-F, 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Yogendra Gupta can be reached on 571-272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service

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/Yogendra N Gupta/ Supervisory Patent Examiner, Art Unit 1791

MVE